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What is claimed is:

structure diagram.

Claims

- 1. A method for use in deriving a chemical structure diagram, comprising:
- identifying, from a connection table for a chemical structure, an instance of chemical structural symmetry in the chemical structure; and expressing the instance of chemical structural symmetry in the chemical
 - 2. A method for use in deriving a chemical structure diagram, comprising:

determining, from a first chemical structure diagram, a force term for increasing diagrammatic symmetry within the first chemical structure diagram; and

applying the force term in a derivation of a second chemical structure diagram from the first chemical structure diagram, the second chemical structure diagram having more diagrammatic symmetry than the first chemical structure diagram.

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3. A method for use in deriving a chemical structure diagram, comprising:

determining, from a first chemical structure diagram, a parameter for use in producing the shape of an addition to the first chemical structure diagram;

- producing the shape of the addition based on the parameter; and producing a second chemical structure diagram by adding the addition to the first chemical structure diagram.
- 4. A method for use in deriving a chemical structure diagram, comprising:

determining a first rectangle that defines a first portion of an available layout area, the first rectangle being of a sufficient size to enclose a first chemical structure diagram;

determining a second rectangle that defines a second portion of an available layout area, the second portion being non-overlapping with the first portion, the second rectangle being of a sufficient size to enclose a second chemical structure diagram; and

positioning the first and second chemical structure diagrams within the first and second portions, respectively.

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5. A system for use in deriving a chemical structure diagram, comprising: an identifier identifying, from a connection table for a chemical structure, an instance of chemical structural symmetry in the chemical structure; and an expressor expressing the instance of chemical structural symmetry in the chemical structure diagram.

6. A system for use in deriving a chemical structure diagram, comprising: a determiner determining, from a first chemical structure diagram, a force term for increasing diagrammatic symmetry within the first chemical structure diagram; and

an applicator applying the force term in a derivation of a second chemical structure diagram from the first chemical structure diagram, the second chemical structure diagram having more diagrammatic symmetry than the first chemical structure diagram.

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7. A system for use in deriving a chemical structure diagram, comprising:
a determiner determining, from a first chemical structure diagram, a
parameter for use in producing the shape of an addition to the first chemical
structure diagram; and

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a producer producing the shape of the addition based on the parameter and producing a second chemical structure diagram by adding the addition to the first chemical structure diagram.

8. A system for use in deriving a chemical structure diagram, comprising: a determiner determining a first rectangle that defines a first portion of an available layout area, the first rectangle being of a sufficient size to enclose a first chemical structure diagram, the determiner determining a second rectangle that defines a second portion of an available layout area, the second portion being non-overlapping with the first portion, the second rectangle being of a sufficient size to enclose a second chemical structure diagram; and

a positioner positioning the first and second chemical structure diagrams within the first and second portions, respectively.

9. Computer software, residing on a computer-readable storage medium, comprising a set of instructions for use in a computer system to help cause the computer system to derive a chemical structure diagram, the instructions causing the system to:

identify, from a connection table for a chemical structure, an instance of chemical structural symmetry in the chemical structure; and

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express the instance of chemical structural symmetry in the chemical structure diagram.

10. Computer software, residing on a computer-readable storage medium, comprising a set of instructions for use in a computer system to help cause the computer system to derive a chemical structure diagram, the instructions causing the system to:

determine, from a first chemical structure diagram, a force term for increasing diagrammatic symmetry within the first chemical structure diagram; and

apply the force term in a derivation of a second chemical structure diagram from the first chemical structure diagram, the second chemical structure diagram having more diagrammatic symmetry than the first chemical structure diagram.

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11. Computer software, residing on a computer-readable storage medium, comprising a set of instructions for use in a computer system to help cause the computer system to derive a chemical structure diagram, the instructions causing the system to:

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determine, from a first chemical structure diagram, a parameter for use in producing the shape of an addition to the first chemical structure diagram; produce the shape of the addition based on the parameter; and produce a second chemical structure diagram by adding the addition to the first chemical structure diagram.

12. Computer software, residing on a computer-readable storage medium, comprising a set of instructions for use in a computer system to help cause the computer system to derive a chemical structure diagram, the instructions causing the system to:

determine a first rectangle that defines a first portion of an available layout area, the first rectangle being of a sufficient size to enclose a first chemical structure diagram;

determine a second rectangle that defines a second portion of an available layout area, the second portion being non-overlapping with the first portion, the second rectangle being of a sufficient size to enclose a second chemical structure diagram; and

position the first and second chemical structure diagrams within the first and second portions, respectively.